



Installing MacBook Pro 15" Unibody Mid 2009 Subwoofer/Right Speaker

Tools used in this guide

- [1.5 mm Flathead Screwdriver](#) (1)
- [Phillips #00 Screwdriver](#) (1)
- [Spudger](#) (1)

Parts relevant to this guide

- [MacBook Pro 15" Unibody \(Mid 2009\) Subwoofer/Right Speaker](#) (1)

Rock out too hard? Use this guide to replace your blown-out subwoofer/right speaker.



Step 1 - Lower Case

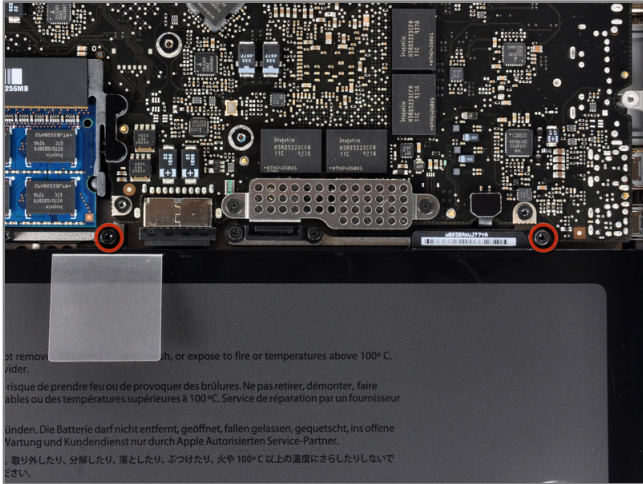
- Remove the following ten screws securing the lower case to the upper case:
 - Seven 3 mm Phillips screws.
 - Three 13.5 mm Phillips screws.



Step 2

- Using both hands, lift the lower case near the vent to pop it off two clips securing it to the upper case.
- Remove the lower case and set it aside.





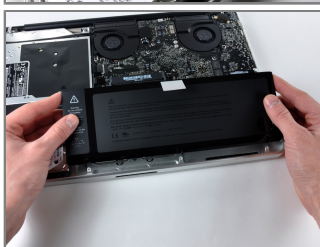
Step 3 - Battery

- Three special five-point Torx screws secure the battery to the upper case.
- Use Apple specialty tool 922-9101 or iFixit's 5-point T6 driver to remove the two exposed five-point Torx security screws along the top edge of the battery.
- A common 1.5 mm flathead screwdriver also works well enough to remove the screws.



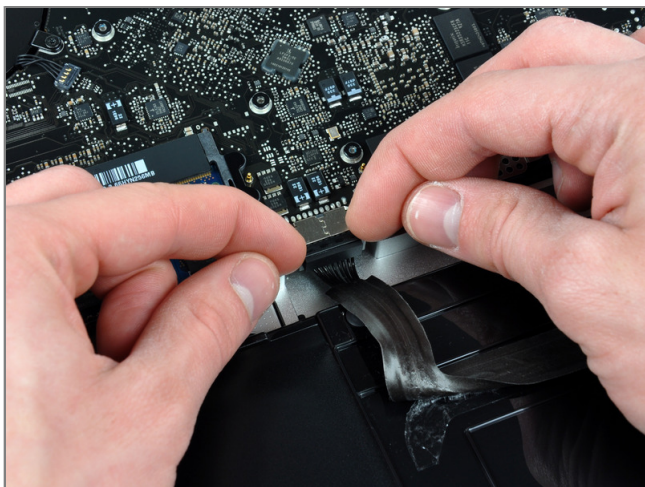
Step 4

- Use the tip of a spudger to bend back the finger of the "Warning: Do not remove the battery" sticker while you remove the five-point Torx security screw hidden underneath.



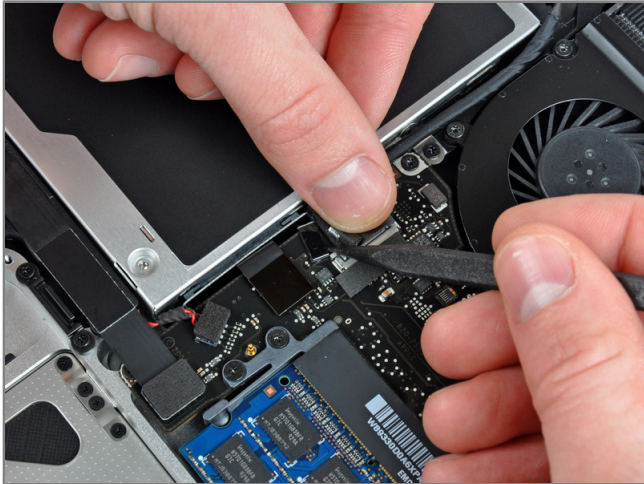
Step 5

- Lift the battery by its plastic pull tab and slide it away from the long edge of the upper case.
- Do not try to completely remove the battery just yet.



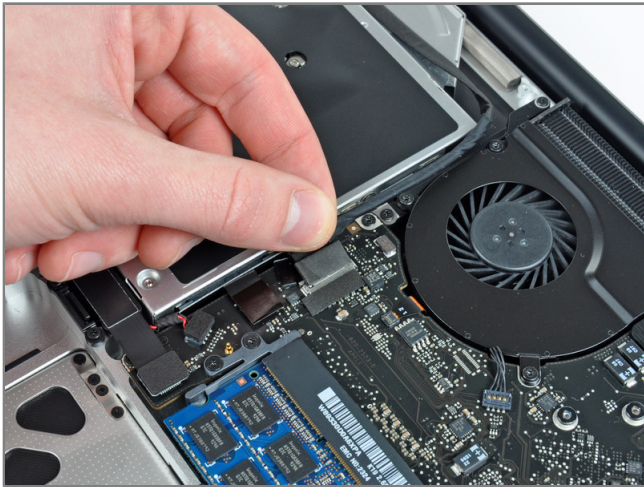
Step 6

- Tilt the battery back enough to access the battery cable connector.
- Pull the battery cable connector away from its socket on the logic board and remove the battery from the upper case.



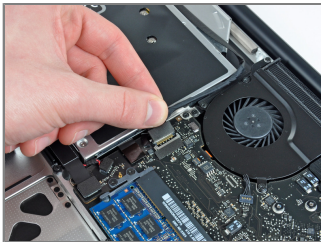
Step 7 - Optical Drive

- Apple sticks a small strip of clear plastic with adhesive applied to one side to the logic board behind the camera cable connector to keep it in its socket. When moving it out of the way, be sure not to break any surface-mount components off the logic board.
- Hold the end of the cable retainer down with one finger while you use the tip of a spudger to slightly lift the other end and rotate it away from the camera cable connector.



Step 8

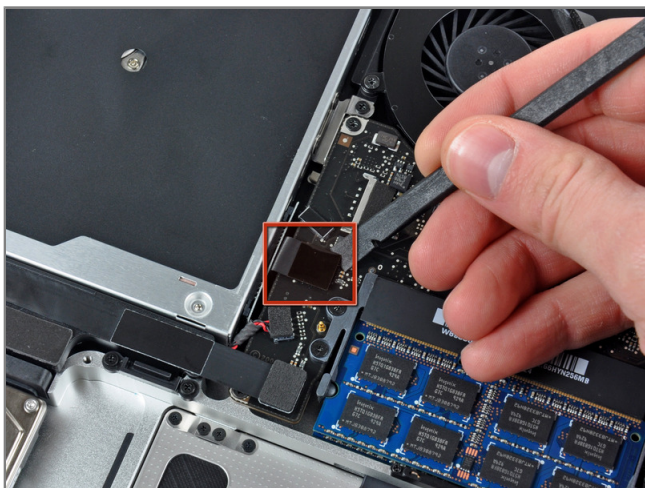
- Disconnect the camera cable by pulling the male end straight away from its socket.
- Pull the connector parallel to the face of the logic board, not straight up.





Step 9

- Peel the camera cable off the adhesive securing it to the optical drive.



Step 10

- Use a spudger to pry the optical drive connector straight up off the logic board.



Step 11

- Remove the single 3.5 mm Phillips screw securing the inner side of the optical drive to the upper case.



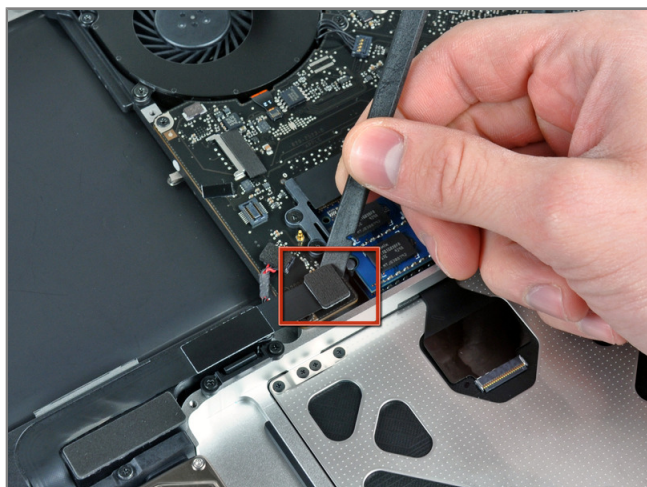
Step 12

- Remove the two 3.5 mm Phillips screws securing the outer side of the optical drive to the upper case.



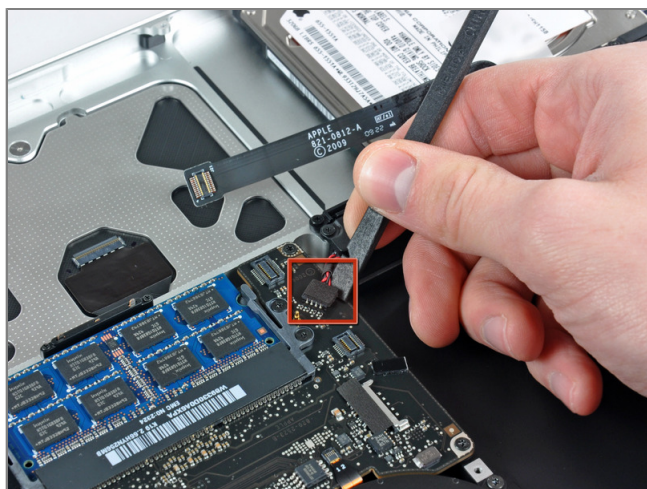
Step 13

- Lift the optical drive from its left edge and pull it out of the upper case.



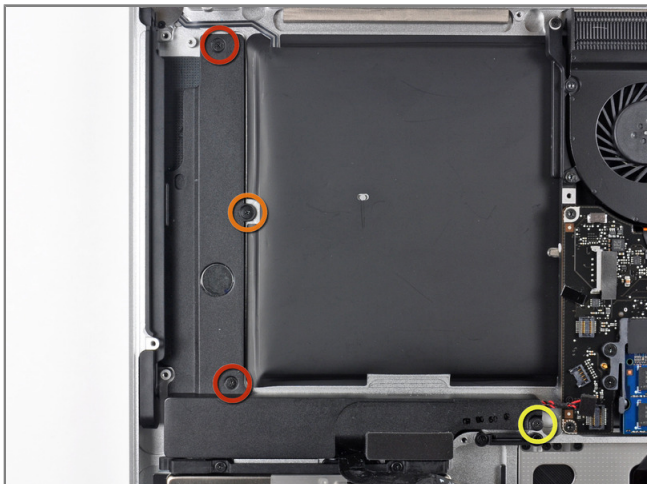
Step 14 - Subwoofer/Right Speaker

- Use the flat end of a spudger to pry the hard drive/IR sensor cable connector up off the logic board.
- Peel the hard drive cable up from the channel within the subwoofer and right speaker.



Step 15

- Using the flat end of a spudger, pry the subwoofer/right speaker connector straight up off the logic board.



Step 16

- Remove the following four screws securing the subwoofer and right speaker to the upper case:
 - Two 3.2 mm Phillips screws.
 - One 2.6 mm Phillips screw.
 - One 5 mm Phillips screw.



Step 17

- Lift the subwoofer and right speaker assembly out of the upper case.

To reassemble your device, follow these instructions in reverse order.

This document was last generated on Dec 14, 2010.